Neuro Discovery

Research using Multidisciplinary, Innovative approaches in Neuro Diseases (ReMIND)

Concept Presentation

Rosa Canet-Avilés, Ph.D. Vice President
Chan Lek Tan, Ph.D. Sr Science Officer
CIRM's Scientific Programs and Education Team

Neuro-DISC (ReMIND) Concept Plan Discussion

August, 2023

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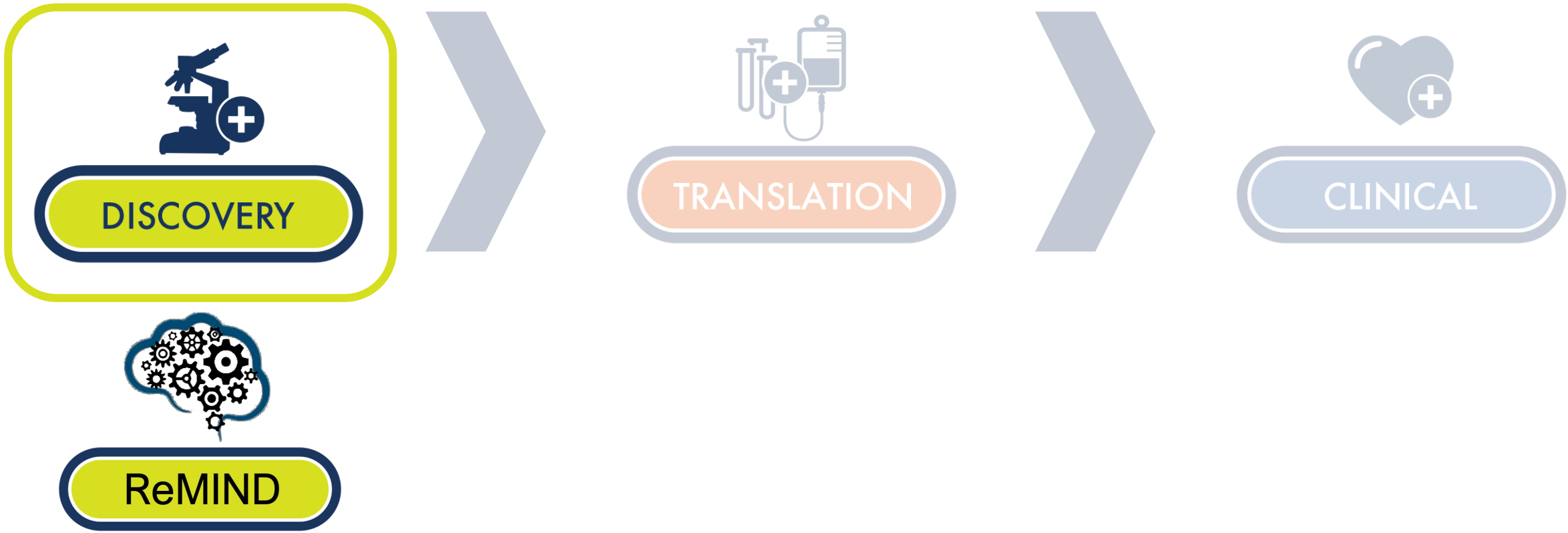
Key Changes Since Last Task Force Meeting

- Clarified definition of Neuro and adjusted language regarding neuropsychiatric disorders
- Added table of funding structures of ReMIND vs comparable awards (e.g., size, duration, minimum PI effort)
- Added example project structures
- Removed any projections outside of current Concept Proposal
- Clarified structure and purpose of Discovery Advisory Panel and added community engagement consultant as a member

ReMIND - Discovery phase of CIRM's Neuro Strategy



Mission Statement

ReMIND

OUR MISSION

Accelerating world class science to deliver transformative regenerative medicine treatments in an equitable manner to a diverse California and world

Neuro DISC (ReMIND) Concept – Goal

Accelerate the **discovery of mechanisms** underlying **neuropsychiatric** disorders leading to **identification** and **validation** of novel **targets** and **biomarkers** with the goal to provide new avenues and rigorous foundations for future translational and clinical investigations.

- **Accelerate** foundational scientific understanding
- **Catalyze** multi-disciplinary innovation
- **Drive** open and collaborative science

ReMIND = Research using **M**ultidisciplinary, **I**nnovative approaches in **N**euro **D**iseases

ReMIND: RFA program structure

	ReMIND-L		ReMIND-X
Types of study	Large collaborative projects		Exploratory projects
Preliminary Data	Required		Not required
Award structure	4 years		2 years
Direct costs per award	Base component		$0.5M/ year $1.0M total
	Up to $2.0M/ year $8.0M total		
Expected number of awards	**6**		**12**

ReMIND: RFA program structure – Matching funds*

	ReMIND-L		ReMIND-X
Types of study	Large collaborative projects		Exploratory projects
Preliminary Data	Required		Not required
Award structure	4 years		2 years
Direct costs per award	Base component	+ *Optional* Matching funds*	$0.5M/ year $1.0M total
	Up to $2.0M/ year $8.0M total	Up to $0.5M/year $2.0M total	
	Total from CIRM* Up to $2.5M/year $10M total		
Expected number of awards	**6**		**12**
Total award budget (w F&A costs)	**$88.2M**		**$22.5M**

* *Note:* Matching funds contingent on teams acquiring ≥ $0.5M/year funding from CA or non-CA sources

ReMIND: Timeline (2024-2027)

Large team collaborative projects

Exploratory, high-risk, high-impact studies

ReMIND: Proposed Eligibility

	ReMIND-L	ReMIND-X
Types of study	Large Collaborative projects	Exploratory, high-risk projects
CA eligibility	**California non-profit or for-profit research institutions**	
Principal Investigator	Will manage the project and serve as the primary administrative contact for CIRM and any award partners	
Min % effort	Principal Investigator – 15% Co-Investigators (4 or more) – 10%	Principal Investigator – 5% Co-Investigators (1 or more) – 5%
Team size	5 (minimum) 1 x Principal and Co-Investigators	2 (minimum) 1 x Principal and Co-Investigators
Team member	• At least one member of the collaboration should have relevant clinical expertise • At least one member should have relevant computational biology expertise	• Strongly encourage applications from investigators who can bring new technologies, resources, or frameworks to the study of neuropsychiatric disorders and in-vitro modeling of the human CNS

ReMIND: Project Eligibility

To be eligible, ReMIND projects **must**:

- Address a key knowledge gap or research bottleneck in our understanding of neuropsychiatric diseases
- Employ stem cells or genetic research* as part of the central approach and justify elements that do not directly involve stem cells/genetic research*
- Validate findings derived from non-human systems with a relevant human tissue/cell equivalent

* Research that alters genomic sequences of cells (edit, remove or add DNA sequences); or introduces or directly manipulates nucleic acids (e.g., coding and non-coding RNAs, antisense oligonucleotides) in cells.

ReMIND: Data Sharing, DEI

Data Sharing

Required Data Sharing and Management Plan

- Describe approach to sharing and management of data generated consistent with FAIR principles

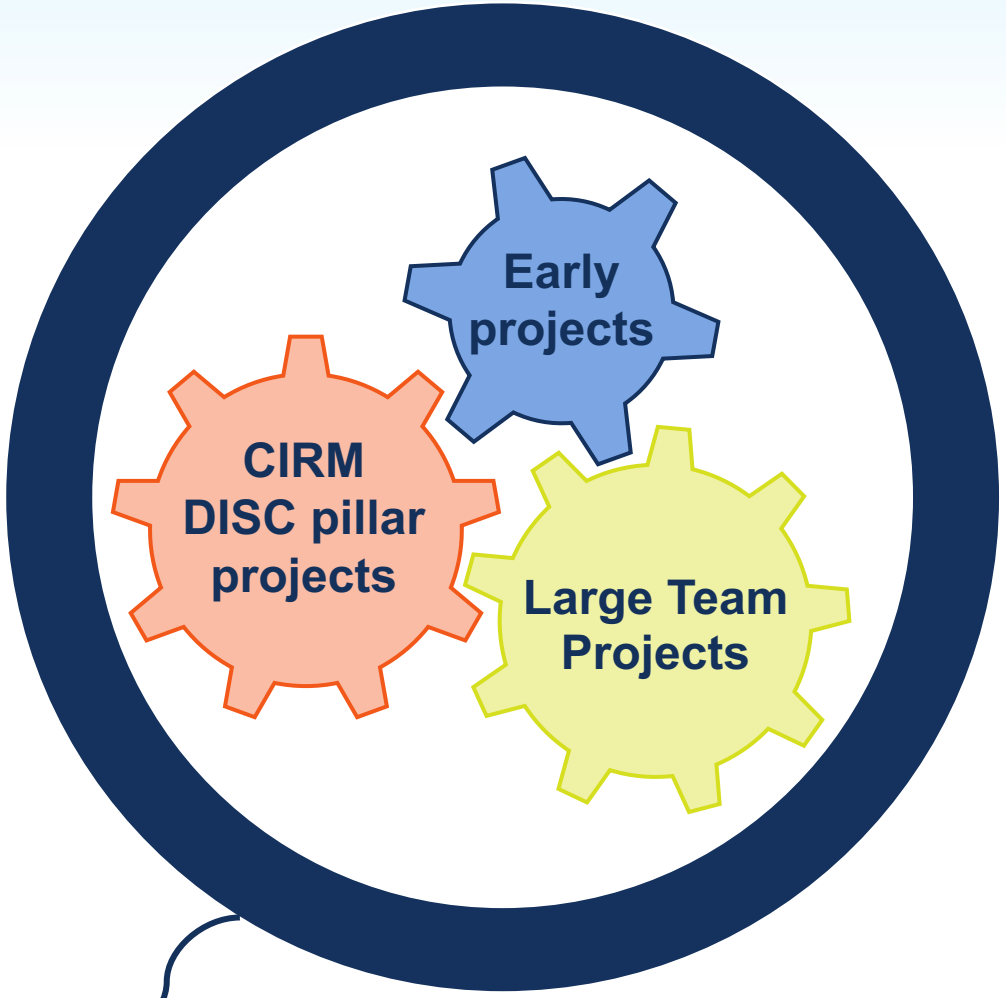
Required coordination with Data-Coordination and Management Center (DCMC)

- Participation in DCMC activities and alignment of data processes with its recommendations.

Diversity, Equity, Inclusion

Applications must include plans to address DEI

ReMIND program as part of a collaborative, open science community



Discovery Advisory Committees
Data Coordinating & Management Center

CIRM funded infrastructure, education and scientific programs

External consortia, resource networks and data platforms

ReMIND program as part of a collaborative, open science community

CIRM ReMIND Consortium

Open Science Community

Discovery of novel targets and biomarkers

Increase efficiency and success of clinical trials

Program Budget

	ReMIND-L	ReMIND-X
Total per-cycle budget (w/indirect costs)	$88.2M	$22.5M

Requested Action

CIRM requests the Board approve the proposed ReMIND Program Concept

ReMIND

Research using **M**ultidisciplinary, **I**nnovative approaches in **N**euro **D**iseases

Appendix

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Funding structures of comparable awards

Grant Type	Examples	Min PI effort	Duration (years)	Max Costs /year
Large collaborative projects	**ReMIND-L**	PI 15% Co-Investigators 10%	4	**$2.5M (Direct)**
	NIMH Convergent Neuroscience (U01)	PD/PI (25%)	5	$2.5M (Direct)
	NIMH Silvio O. Conte Centers (P50)	Center Director (25%) Sub-project lead (15%)	5	$2.0M (Direct)
	SFARI Human Cognitive and Behavioral Science Collaboration Track	No min	3	$1.0M (Total)
	CZI-Neurodegeneration Patient-Partnered Collaboration	No min	2 + 2	$0.5M (Total)
Exploratory, high-risk projects	**ReMIND-X**	5%	2	**$500K (Direct)**
	CZI-Neurodegeneration Collaborative Pairs Pilot Phase	No min	1.5	$150K (Total)
	NIMH Exploratory/Developmental Research Grant (R21)	No min	2	$200K (Direct)
	SFARI Pilot award	No min	2	$150K (Total)